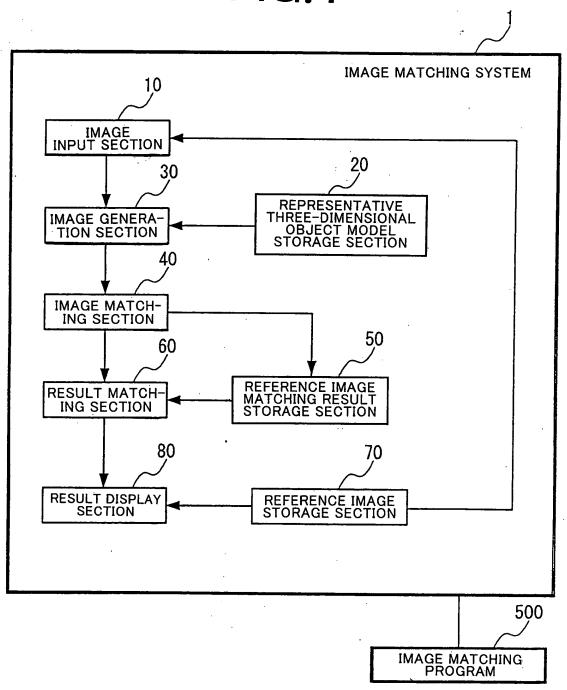
Inventor: Masahiko HAMANAKA'

Title: MAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 1 of 19

FIG.1



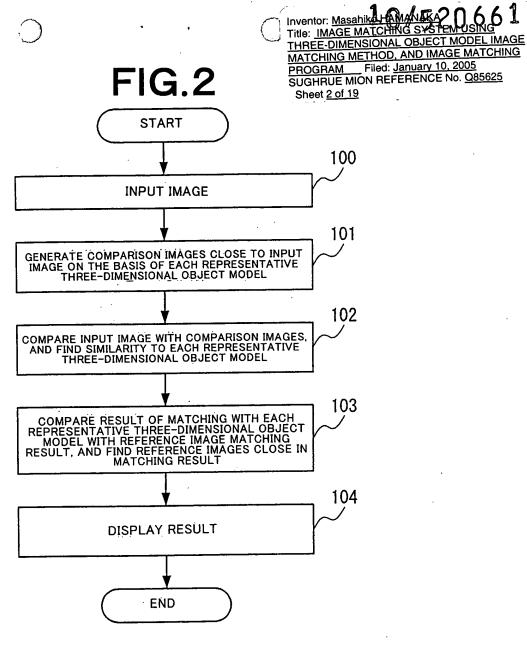
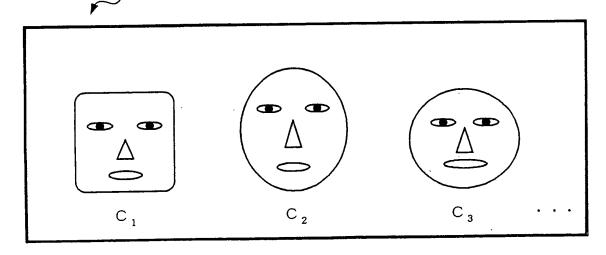


FIG.3

20 REPRESENTATIVE THREE-DIMENSIONAL J OBJECT MODEL STORAGE SECTION



Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 3 of 19

FIG.4

70 REFERENCE IMAGE STORAGE SECTION

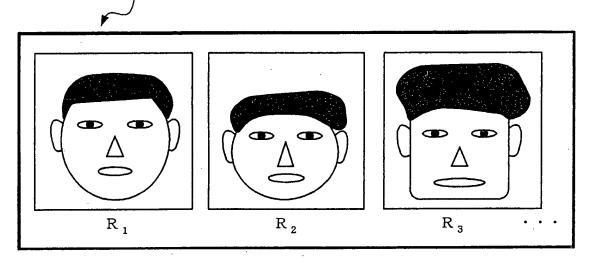


FIG.5

50 REFERENCE IMAGE MATCHING RESULT STORAGE SECTION

REFERENCE IMAGE NUMBER		DDEL NUMBER AND SECOND PLACE	SIMILARITY THIRD PLACE • • •
R ₁ R ₂ R ₃	=	$C_{2}:0.93$	C ₃ : 0.95 C ₁₀ : 0.90 C ₈ : 0.93

Inventor: Masahiko HATINAK 2066

Title: IMAGE MATCHING SYSTEMUSING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 4 of 19

FIG.6

INPUT IMAGE

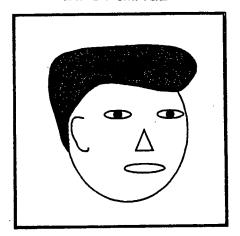


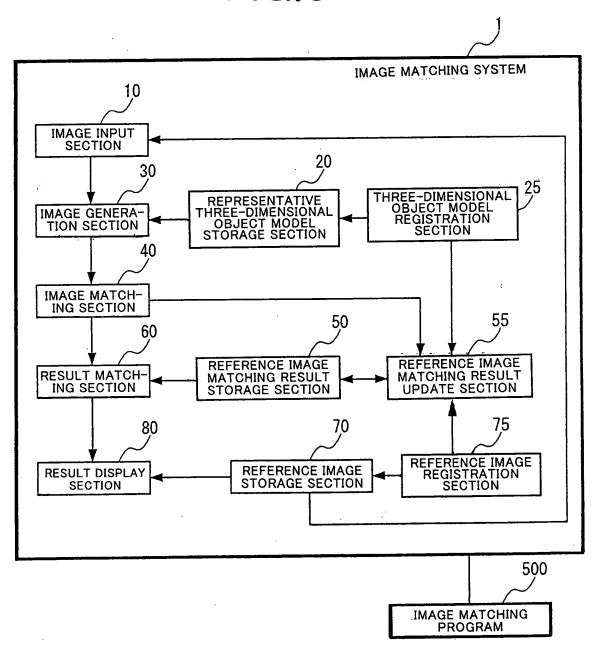
FIG.7

	OBJECT MODEL NUMBER AND SIMILARITY			
	FIRST PLACE	SECOND PLACE	THIRD PLACE	• • • .
INPUT IMAGE	C ₂ : 0.96	C ₅ : 0.94	C ₃ : 0.92	

		REFERENCE IMAGE NUMBER AND SIMILARITY		
		FIRST PLACE	SECOND PLACE	THIRD PLACE · · ·
INPUT IMA	GE	R ₁ : 0.92	R ₅ : 0.89	R ₂ : 0.87

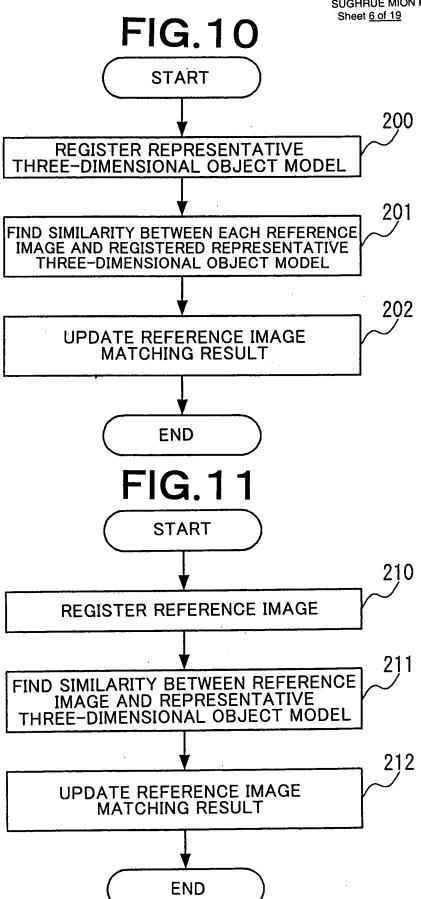
Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 5 of 19

FIG.9



Inventor: Masahil MANA 066 1

Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 6 of 19



Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 7 of 19

FIG.12

REFERENCE IMAGE NUMBER	OBJECT MODEL NUMBER AND SIMILARITY	
R ₁	C ₅₁ : 0.97	
R ₂	C ₅₁ : 0.92	
R ₃	C ₅₁ : 0.83	

FIG.13

50 REFERENCE IMAGE MATCHING RESULT STORAGE SECTION

REFERENCE	OBJECT MODEL NUMBER AND SIMILARITY		
IMAGE NUMBER	FIRST PLACE S	ECOND PLACE	THIRD PLACE • • •
R ,	C ₂ : 0.98	C ₅₁ : 0.97	C ₅ : 0.96
R,	$C_3 : 0.95$		C ₅₁ : 0.92
R ₃	$C_1 : 0.97$	C ₉ : 0.96	$C_8 : 0.93$
•	_		
•			

REFERENCE	OBJECT MODEL NUMBER AND SIMILARITY		
IMAGE NUMBER	FIRST PLACE	SECOND PLACE	THIRD PLACE
R 101	C ₂ : 0.99	C ₆ : 0.98	C ₃ : 0.96

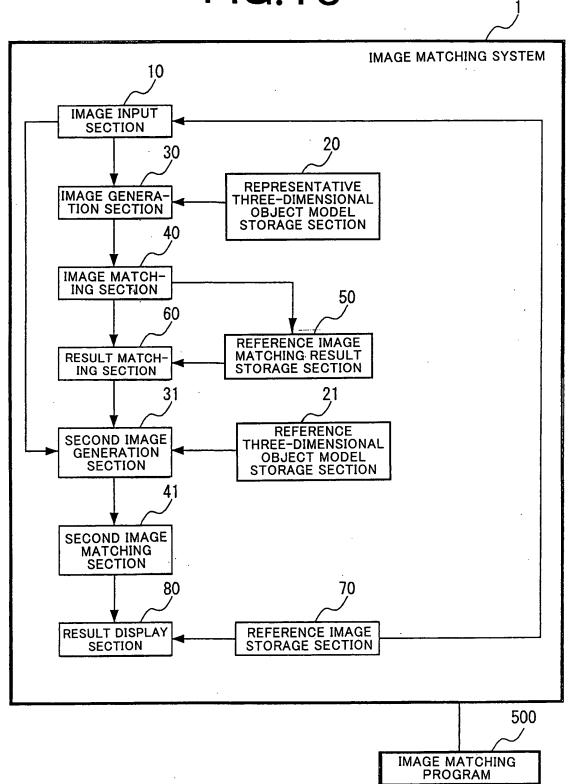
Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 8 of 19

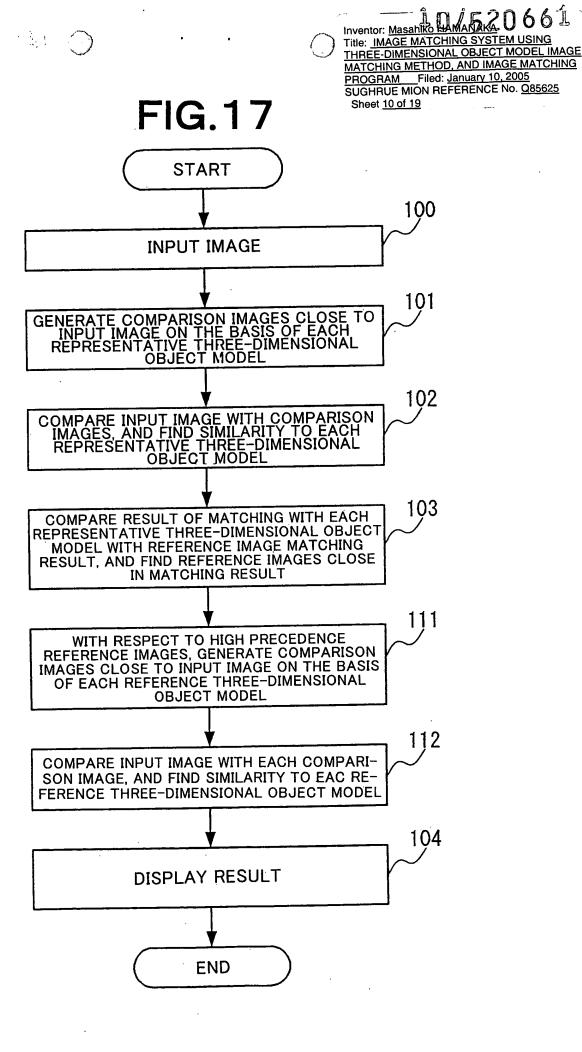
FIG.15

50 REFERENCE IMAGE MATCHING RESULT STORAGE SECTION

REFERENCE	OBJECT MODEL NUMBER AND SIMILARITY		
IMAGE NUMBER	FIRST PLACE	SECOND PLACE	THIRD PLACE · · ·
R,	C ₂ : 0.98	C ₅ : 0.96	C ₃ : 0.95
R ₂	C ₃ : 0.95	$C_2 : 0.93$	$C_{10} : 0.90$
R ₃	$C_1 : 0.97$	C ₉ : 0.96	C ₈ : 0.93
•		•	
•		•	
R ₁₀₁	C ₂ : 0.99	C ₆ : 0.98	C ₃ : 0.96

Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 9 of 19





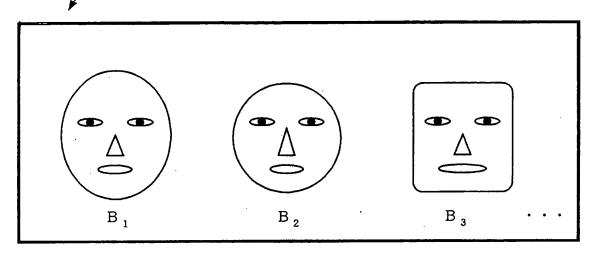
Inventor: Mas high AMANAKO 661

Title: IMAGE MATCHING SYSTEM USING THREE-DIMENSIONAL OBJECT MODEL IMAGE MATCHING METHOD, AND IMAGE MATCHING PROGRAM Filed: January 10, 2005

SUGHRUE MION REFERENCE No. Q85625
Sheet 11 of 19

FIG.18

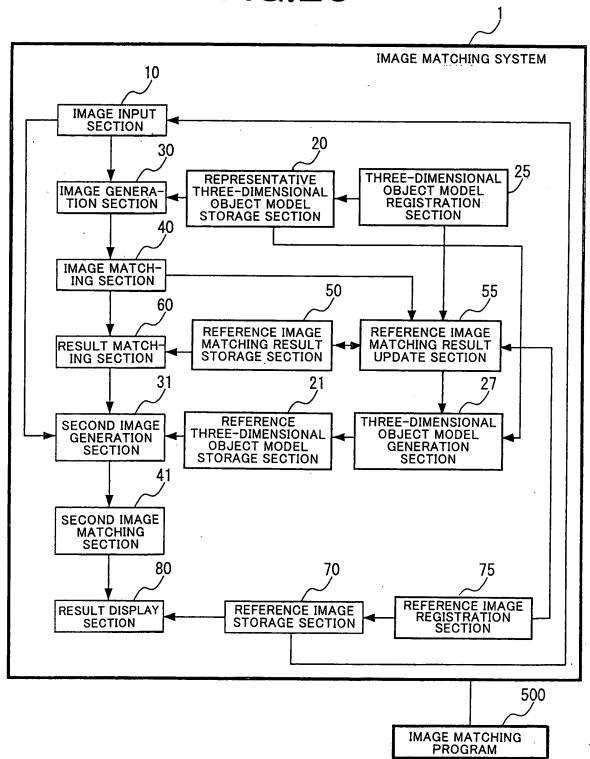
21 REFERENCE THREE-DIMENSIONAL OBJECT MODEL STORAGE SECTION



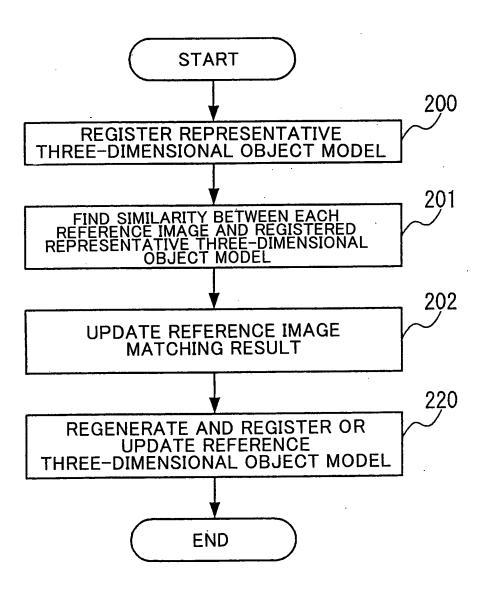
	OBJECT MODEL NUMBER AND SIMILARITY		
	FIRST PLACE SECOND PLACE THIRD PLACE		
INPUT IMAGE	B ₅ : 0.99	B ₁ : 0.98	B ₂ : 0.96

Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 12 of 19

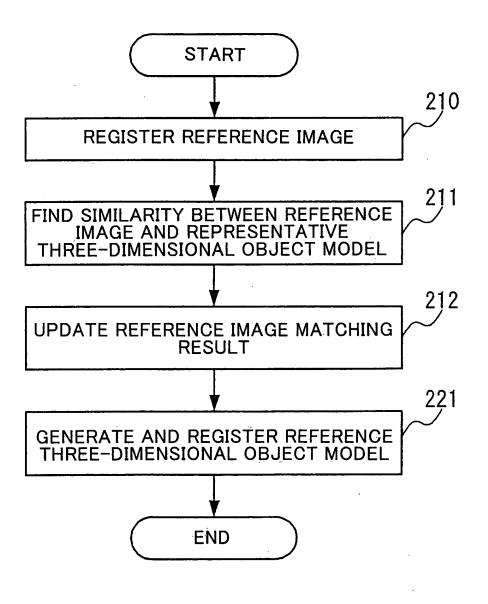
FIG.20



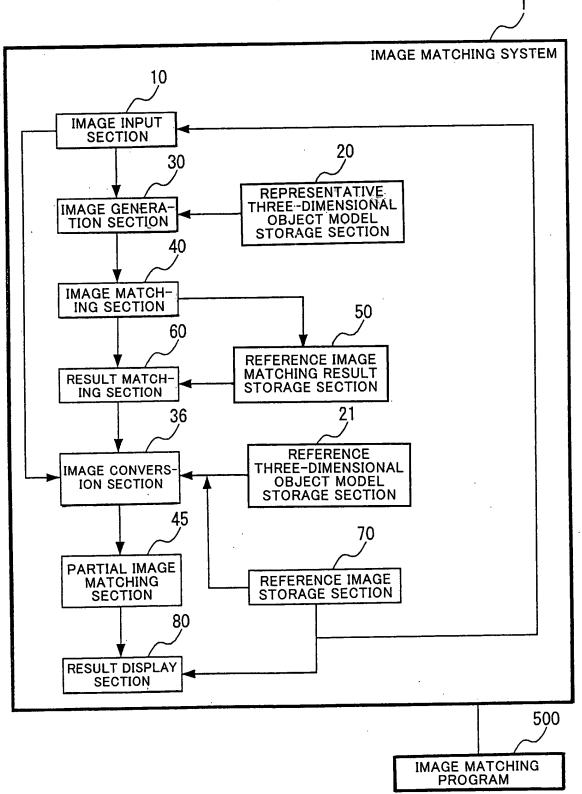
Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 13 of 19

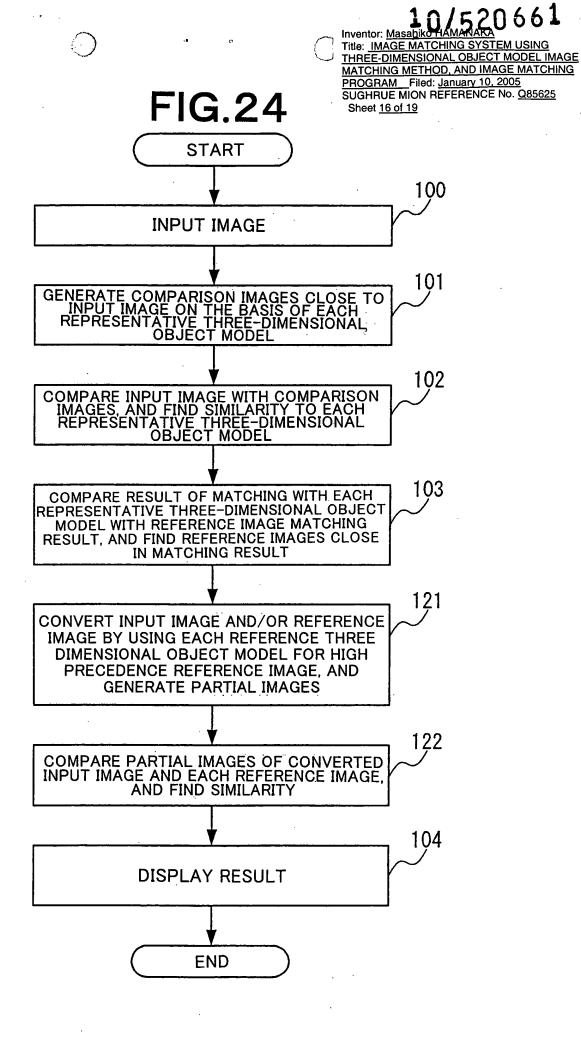


Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 14 of 19

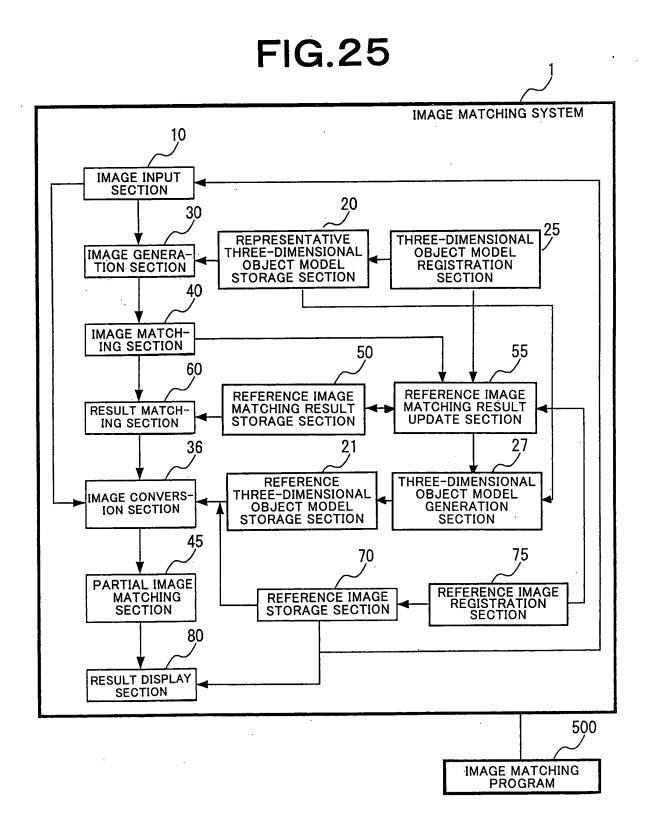


Inventor: Masahik HAMATURA 66
Title: IMAGE MATCHINGS FEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 15 of 19





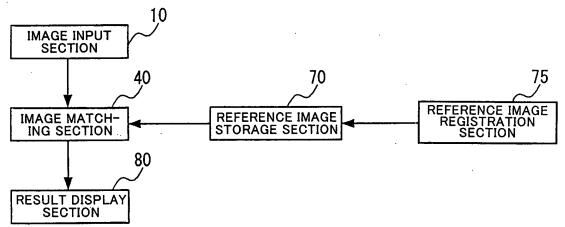
Inventor: Masahab HAMATAY 0 6 6 1
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 17 of 19

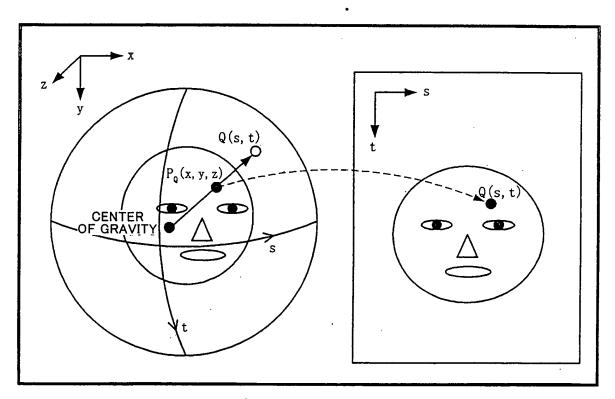


Inventor: Masahiko HAMANAKA

Title: IMAGE MATCHING SYSTEM USING THREE-DIMENSIONAL OBJECT MODEL IMAGE MATCHING METHOD, AND IMAGE MATCHING PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 18 of 19

FIG.26





Inventor: Masahiko HAMANAKA
Title: IMAGE MATCHING SYSTEM USING
THREE-DIMENSIONAL OBJECT MODEL IMAGE
MATCHING METHOD, AND IMAGE MATCHING
PROGRAM Filed: January 10, 2005
SUGHRUE MION REFERENCE No. Q85625
Sheet 19 of 19

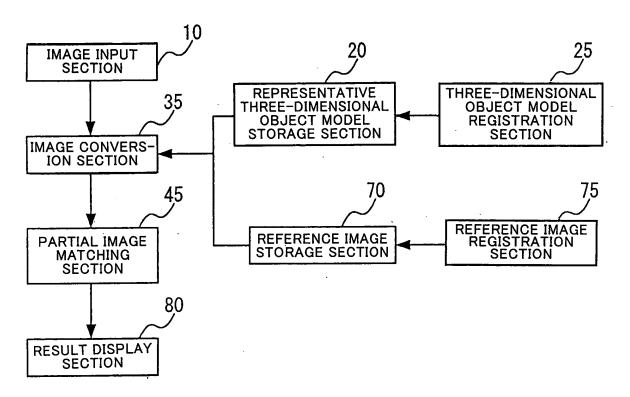


FIG.29

